

can appoint him physician to the Leper Settlement, where Dr. Arning will be obliged to spend the greater part of his time.

In order to impress you with the importance of the results which may flow from an investigation of this kind, I shall have to say a few words of its character and range. It will not be confined to inoculation of animals, but will extend over all the possible bearings of the contagium. The germ will be propagated outside of the human body, cultivated in breeding stores of particular construction, in liquids of different chemical constitution. If inoculation succeeds in the first instance, it will be repeated with the germ modified by these measures; to learn if they lose or increase in power, for as it may be taken for granted that simple contact with the leprous tissue of the living body does not communicate the disease, it is to be presumed that under certain unknown conditions, probably outside of the human body, the germs acquire an unusual energy, under which they develop their contagious quality. For this purpose the soil of the leper graves will have to be examined; houses which have been inhabited by lepers; or in which the disease is known to have taken its commencement, will have to be searched for extra corporeal breeding places. I will only refer here to a popular belief prevalent in southern China, that the disease spreads from the decomposing urine of lepers. The history of individual cases will have to be followed up with a view to all the possibilities which modern research of other disease germs has revealed.

Some startling discoveries, which at the same time open quite good views, have of late years been made with regard to the germs-bacteria of that most deadly disease called malignant carbuncle. These are now proved to be identical with the innocuous bacteria which stick to dried grass or hay, and are present abundantly in the lower strata of the atmosphere in all countries covered with vegetation. These latter have been converted into deadly poison by successive breeding of generation after generation in solutions with gradually increasing proportions of albumen, and, vice-versa. The former have been converted into innocuous hay-bacteria by breeding in solution with gradually diminishing albumen. A similar relation is supposed to exist between the germs of variola and vaccine, although the perfect proof has not been furnished yet.

That from researches of this kind finally must result true knowledge of the natural history of that vegetable organism which originated the disease called lepra, is self-evident. The only question is, after how many years? At the same time, it is evident that the knowledge of its natural history—and only this—will point out with certainty, the sanitary measures which are to be adopted toward warding off the disease presenting its spread and, I do not hesitate to say, finally affecting its cure.

Probably you have read in the papers of the discovery by Dr. Koch in Berlin of the bacteria which cause tuberculosis of the lungs, consumption, well, he has demonstrated by conclusive experiments, not that the disease is inoculable—for that discovery had been made before him—but that the bacteria are the sole carriers of the disease, and that they are present only in the tubercular deposit, not in the blood. In no sputum of a tubercular lung are they wanting, and from the dried sputum they pass in the atmosphere of

confined rooms, where they may, but need not necessarily, become propagators of the disease, for they require a temperature of at least, 40° C. in order to live and propagate, you will see at a glance, what a hopeful field this knowledge opens to preventive measures against the spread of this dreadful disease.

On the other hand, the germs being confined to the lungs, at all events in the earlier stages of the disease, this has to be attacked by local means, inhalation and inflammation. And as known already an organism which kills the micrococci cell in the case of malaria without damaging the blood-cell or globule, the source of human life, why should one despair of finding a corresponding remedy in the case of tuberculosis or lepra?

The foregoing remarks will convey to you, my dear sir, a due appreciation of the importance of the work, and also of the difficult and complicated nature of the investigations. Only men in possession of all the specific knowledge obtained thus far, experienced in use of the microscope and practically trained to the different methods of experimental research are competent to undertake it. Such a man offers himself to you, commissioned by one of the highest scientific bodies, from no motives of gain but prompted by the simple enthusiasm of science and philanthropy. I am sure that you will not grudge him the small contribution which is needed; \$1,500 to \$2,000 will cover the whole expense, I should think. The French Government has assisted M. Pasteur to the extent of over 100,000 francs during the last two years, to enable him to carry on experiments tending to impart to sheep immunity against a contagious disease. How much more cogent reason to assist experiments tending to the salvation of a nation of men?

GENERAL NEWS NOTES.

Colonel Ingersoll has been entertaining his "double" at his Washington home. This "double" is an Englishman who, curiously enough, not only has the same name as the Colonel, but was born the same day and the same year, and his mother's name was the same as the eloquent infidel's. If the Englishman's story is true, it is a most singular coincidence. At any rate, Colonel "Bob" thinks it is a true bill, and has invited his friend to go to his cattle ranch in New Mexico with him this summer. The two men have struck up a great friendship, as they find that they have many ideas in common; but the Englishman differs from his American namesake by being a devout churchman.

A Berlin newspaper has got hold of a genuine sensation. It says that an enormous hotel is soon to be built at St. Augustine, Fla. It will be three miles long, six miles deep, and seventy-five stories high. Guests will be taken to their rooms by 500 balloons; the tables in the dining-room will be four miles in length, and the waiters who serve the meals will be on horseback. There will be a cupid in the office 100 feet in circumference. The German doesn't often try to be funny, but when he does he means business.

Many persons are under a great misapprehension as to the means of transit or locomotion in Venice. It is a mistake to suppose that there are no streets, and that it is absolutely necessary to go from place to place by gondola. It is true that three bridges—the Rialto bridge of the middle ages, and two modern iron bridges—span the Grand Canal which divides the city in equal halves; it is true that the city is built upon one hundred and seventeen islands, intersected by one hundred and fifty small canals, and two thousand four hundred and eighty passages; but almost every one of the water streets has a quay or footpath bordering it, while 400 bridges unite island to island, so

that it is quite possible to go to every part of the city on foot, although few perhaps would care to do so, for there is not in all the world a more difficult place for the traveler, guided only by the "light of nature," to find a given spot. That spot may be only a few hundred yards away, but to reach it he may have to cross half a dozen bridges, some leading to the right and some to the left, and traverse as many squares, of which there are 396, 127 larger squares, and 269 smaller squares.

Le Matin gives at second hand an interview of somebody somewhere in England with the alleged "Number One," whose name is stated to be Tynan. This villain, who is probably more of an imposter than the resolute murderer he represents himself to be, claims to be the chief of the Invincibles. He had something to do with the Phoenix Park murders, but not in the way attributed to him by the informer Carey. He goes in strongly for the dagger, and fortifies himself with Bible texts, but he is magnanimous enough to say he is not for dynamite, which may kill many innocent people. His only present relation with the dynamiters are to prevent them from carrying out their schemes, the execution of which heretofore he deems contemptible. He was once a devoted servant to the head center, Stephens, but has fallen off from him now, because Stephens stands still while he goes ahead. Stephens has no stomach for the dagger. He does not fear to be arrested, because he has a faithful bodyguard who would certainly murder any detective who might arrest him.

Arrests have been made of a number of civilians, officers and other persons well known to be advanced Republicans in Barcelona, Lerida, Reus, Alicante, Valencia, Cartagena, Cadiz, Cordova, and other places, in consequence of information received a few days ago from abroad and from Catalonia that put the authorities on the track of a revolutionary movement which had been skilfully designed to create agitation in many provinces on the eve of the general election. The credit of the discovery, and of the energetic steps taken to defeat the movement, which is said to have been planned by Zorrilla, is entirely due to Marshal Quesada and the Home Secretary, Senor Romero Robledo, who for several nights have been in telegraphic communication with the civil and military authorities. These functionaries on Sunday simultaneously surprised the conspirators and seized documents, which, it is reported, show that the plan of the Revolutionists was to attempt a rising in the towns, and also to start bands in the mountains of Catalonia, for which purpose they had procured arms and money.

Plantation Philosophy.

De soberest man in de worl' is de fellow whut hab jest got ober a spree, an' he knows dat de advise whut he gibs yer is true, case he didn't follow it hisse'f. Dar ain' no sartin cure for a lazy man. Yer ken sorter lived him up er little, but de fust thing yer knows he's dun drapped back. De lazy hoss ain' gwine ter trot lessen yer whup him half de time. When a boy takes it inter his head dat de worl' owes him a libin, an' dat he's gwine ter get it ez easy ez he can, he'd better practise how ter act when he gets 'fore de gran' jury, fur he's gwine dar sho'. It hab been said dat it am jist as well fur a man to be a thief ez a liar, but I doan agree wid de man whut says it. A man sometimes tells er lie to make hisse'f more 'po'tant an' ter gain yer respect, but de thief is arter gain an' doan kere eben for his own respect. Ise knowed men ter drap de hoe an' pray fur rain, expectin' de Lawd ter take mo' intrust in de crap den da did. Watch one o' dese hear men whut allus wants ter pray, an' ef he doan war out his bitches settin' roun', den I'll be willin' ter 'knowledge myself de biggis' liar in de community. De man whut tries ter do right jes because he is effered o' de debil ain' in no great hurry ter punish him, an' den do wrong. I ain' got no respect fur forced 'ligion. De fruit whut am raised in a hot-house ain' nigh so sweet as de fruit whut yer gets outer de orchard.—*Arkansas Traveler.*

Shipping.

PACIFIC MAIL STEAMSHIP CO.

TIME TABLE.



PACIFIC MAIL S.S. CO.

For San Francisco:

City of Sydney..... On or about July 6

For Auckland and Sydney:

Zealandia..... On or about July 12.
oct 1 83-d&w

STEAMER 'KINAU.'

THE STEAMER "KINAU" WILL LEAVE HONOLULU EACH TUESDAY at 4 P. M., touching at Lahaina, Maalaea Bay, Makena, Maui, Kona, Kailua, Laupahoehoe and Hilo. Returning, will touch at all the above ports, leaving at Honolulu each Saturday P. M. The "KINAU" will leave her wharf at 4 P. M., and NO FREIGHT WILL BE RECEIVED AFTER 3 P. M. Due notice is given of this rule, and it will be carried out. oct 1 83-d&w

Inter-Island

Steam Navigation Company's



TIME TABLE.

Steamer Planter,

BATES.....Commander

Will run regularly for Kona and Kau.

LEAVES HONOLULU AT 4 P. M.

Friday.....	April 4	Tuesday.....	May 27
Tuesday.....	" 15	Friday.....	June 6
Friday.....	" 25	Tuesday.....	June 17
Tuesday.....	May 6	Friday.....	June 27
Friday.....	May 16		

Returning, Touching at Maalaea

Friday.....	April 11	Tuesday.....	June 3
Tuesday.....	April 22	Friday.....	June 13
Friday.....	May 2	Tuesday.....	June 24
Tuesday.....	May 13	Friday.....	July 4
Friday.....	May 23		

ARRIVING AT HONOLULU AT 5 P. M. On the out trip, will touch only at the following ports in Kona, Kailua, Keahou, Hookena, and Hoopuloa.

Steamer Iwalani,

CAMERON.....Commander

Leaves Honolulu Every Tuesday, at 5 P. M.

For Nawiliwili, Koloa, Waimea and Elele, Kauai. Returning, leaves Nawiliwili every Saturday evening.

Steamer Jas. Makee,

FREEMAN.....Commander

Leaves Honolulu Every Thursday at 3 P. M.

For Kapaa and Kilauea. Returning leaves Kauai every Tuesday at 4 P. M. and touching at Waianae both ways.

Steamer C. R. Bishop

DAVIS.....Commander

Leaves Honolulu Every Tuesday at 4 P. M.

For Kukuhaele, Honokaa and Paauhau. Returning arrives at Honolulu every Saturday morning 9 o' clock.

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